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APPLICATION NO.	ICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,506 10/29/2003		Sheldon Aronowitz	02-5804/LS11P212	8055	
24319	7590	09/21/2005		EXAMINER	
LSI LOGIC CORPORATION 1621 BARBER LANE			. CHEN, BRET P		
MS: D-106	on Division			ART UNIT	PAPER NUMBER
MILPITAS, CA 95035				1762	

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/697,506	ARONOWITZ ET AL.	
Office Action Summary	Examiner	Art Unit	
	B. Chen	1762	_
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the	he correspondence address	_
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	FION.  be timely filed  from the mailing date of this communication.  DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	·		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	s action is non-final.		
3) Since this application is in condition for allowa	•	•	
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D. 11	I, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-22 is/are pending in the application	1.		
4a) Of the above claim(s) 19-22 is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-18</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.	•	
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by t	he Examiner.	
Applicant may not request that any objection to the		• •	
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	- , ,	
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Of	fice Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	• •		
3. Copies of the certified copies of the prio		eived in this National Stage	
application from the International Burea	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
* See the attached detailed Office action for a list	of the certified copies not rece	eived.	
	•		
Attachment(s)			
1)  Notice of References Cited (PTO-892) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	mary (PTO-413) ail Date	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	) 5) 🔲 Notice of Inform	nal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6)	•	

#### **DETAILED ACTION**

Claims 1-22 are pending in this application.

#### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-18, drawn to a method, classified in class 427, subclass 250.
- II. Claims 19-22, drawn to an apparatus, classified in class 118, subclass 719.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as etching.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Timothy Croll on September 7, 2005, a provisional election was made with traverse to prosecute the invention of Group I, claims 1-18. Affirmation of this election must be made by applicant in replying to this Office action. Claims 19-22 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## **Drawings**

Figures 3 and 5 look to be informal. While the examiner is not making a formal objection, a request for formal drawings for Figures 3 and 5 is requested.

## Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

It is noted that the claimed invention is directed solely to a method. The examiner suggests amending the title to reflect same.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al. (4,229,260). Johnson discloses a method for coating a metal substrate which is heated to 400-450°C in which a volatile compound is mixed with a heated inert gas to form a mixture which is passed over the heated substrate to form a metal coating (col.2 lines 17-32). However, the reference fails to specifically teach a temperature-controlled processing chamber.

It is noted that Johnson specifically teaches that the temperature is important to the deposition process and that a specific temperature range is required (col.3 line 55 –col.4 line 23). One skilled in the art after reading Johnson would realize that temperature is a critical deposition parameter for the success of the deposition. Hence, it would have been obvious to one skilled in the art to utilize temperature-controlled processing chamber with the expectation of obtaining control of a critical deposition parameter.

The limitations of claims 2-18 have been addressed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bc 9/17/05

BRET CHEN PRIMARY EXAMINER

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